RWY Series

- High ripple capability
- Endurance with ripple current : 5,000 hours at 85℃
- Reduced cost design for three-phase input inverters
- RoHS Compliant

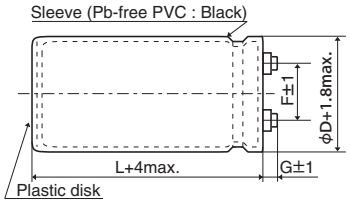
RWY
↑ Low price version
RWF P302

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-25 to +85℃	
Rated Voltage Range	350 to 450V_{dc}	
Capacitance Tolerance	±20% (M)	(at 20℃, 120Hz)
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)	(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	0.12 max.	(at 20℃, 120Hz)
Low Temperature Characteristics	Capacitance change C(-25℃)/C(+20℃)≧0.7	(at 120Hz)
Insulation Resistance	When it is measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500V_{dc}, the insulation resistance shall not be less than 100MΩ.	
Insulation Withstanding Voltage	When a voltage of 2,000V_{ac} is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 85℃.	
	Capacitance change	≦±20% of the initial value
	D.F. (tan δ)	≦200% of the initial specified value
	Leakage current	≦The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 85℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.	
	Capacitance change	≦±20% of the initial value
	D.F. (tan δ)	≦200% of the initial specified value
	Leakage current	≦The initial specified value

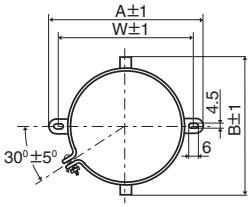
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



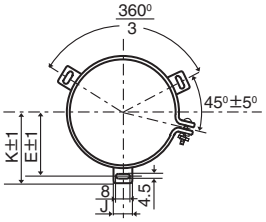
φ50 to φ76.2 : G=6
φ89 : G=4
φ100 : G=10

●Mounting Clamp Code : B



φD	A	B	W	F
50	78.0	64.0	68.0	22.4
63.5	90.0	76.0	80.0	28.0
76.2	104.5	90.0	93.5	31.5

●Mounting Clamp Code : C



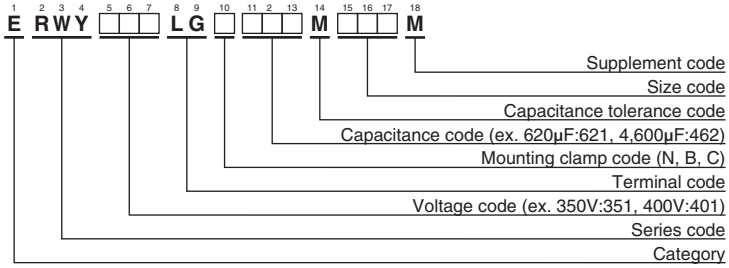
φD	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	63.4	41.5	18.0

<Screw specifications>
to φ89 Plus hexagon-headed screw :M5×0.8×10
Maximum screw tightening torque :3.23Nm

φ100 Cross-recessed head (phillips) screw : M8×1.25×16
Spring washer,Washer
Maximum screw tightening torque :6.31Nm

* The screw and the mounting clamp are separately supplied and not attached to the product.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (screw-mount terminal type)"

RWY Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃, 300Hz)	Part No.
350	750	50 × 75	0.12	5.10	ERWY351LGC751MC75M
	1,100	50 × 96	0.12	6.90	ERWY351LGC112MC96M
	1,300	50 × 105	0.12	7.80	ERWY351LGC132MCA5M
	1,600	50 × 130	0.12	9.50	ERWY351LGC162MCD0M
	1,800	63.5 × 96	0.12	10.0	ERWY351LGC182MD96M
	1,900	50 × 145	0.12	10.7	ERWY351LGC192MCE5M
	2,400	63.5 × 115	0.12	12.6	ERWY351LGC242MDB5M
	2,800	63.5 × 130	0.12	14.3	ERWY351LGC282MDD0M
	3,400	63.5 × 155	0.12	17.1	ERWY351LGC342MDF5M
	3,500	76.2 × 115	0.12	16.9	ERWY351LGC352MEB5M
	3,800	63.5 × 170	0.12	18.8	ERWY351LGC382MDH0M
	4,000	76.2 × 130	0.12	19.0	ERWY351LGC402MED0M
	5,000	76.2 × 155	0.12	23.0	ERWY351LGC502MEF5M
	5,600	76.2 × 170	0.12	25.3	ERWY351LGC562MEH0M
	6,900	89 × 155	0.12	27.2	ERWY351LGC692MFF5M
	7,700	89 × 170	0.12	29.6	ERWY351LGC772MFH0M
	8,400	89 × 190	0.12	32.9	ERWY351LGC842MFK0M
	9,500	100 × 190	0.12	37.3	ERWY351LGC952MGK0M
	11,000	100 × 220	0.12	42.9	ERWY351LGC113MGN0M
	14,000	100 × 270	0.12	53.1	ERWY351LGC143MGT0M
400	620	50 × 75	0.12	4.60	ERWY401LGC621MC75M
	880	50 × 96	0.12	6.10	ERWY401LGC881MC96M
	1,000	50 × 105	0.12	6.80	ERWY401LGC102MCA5M
	1,400	50 × 130	0.12	8.90	ERWY401LGC142MCD0M
	1,500	63.5 × 96	0.12	9.10	ERWY401LGC152MD96M
	1,600	50 × 145	0.12	9.90	ERWY401LGC162MCE5M
	2,000	63.5 × 115	0.12	11.5	ERWY401LGC202MDB5M
	2,300	63.5 × 130	0.12	13.0	ERWY401LGC232MDD0M
	2,800	63.5 × 155	0.12	15.5	ERWY401LGC282MDF5M
	2,900	76.2 × 115	0.12	15.4	ERWY401LGC292MEB5M

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃, 300Hz)	Part No.
400	3,200	63.5 × 170	0.12	17.3	ERWY401LGC322MDH0M
	3,400	76.2 × 130	0.12	17.5	ERWY401LGC342MED0M
	4,200	76.2 × 155	0.12	21.1	ERWY401LGC422MEF5M
	4,600	76.2 × 170	0.12	23.0	ERWY401LGC462MEH0M
	5,700	89 × 155	0.12	24.7	ERWY401LGC572MFF5M
	6,400	89 × 170	0.12	27.0	ERWY401LGC642MFH0M
	7,000	89 × 190	0.12	30.0	ERWY401LGC702MFK0M
	7,900	100 × 190	0.12	34.0	ERWY401LGC792MGK0M
	9,400	100 × 220	0.12	39.6	ERWY401LGC942MGN0M
	12,000	100 × 270	0.12	49.2	ERWY401LGC123MGT0M
450	500	50 × 75	0.12	4.00	ERWY451LGC501MC75M
	710	50 × 96	0.12	5.20	ERWY451LGC711MC96M
	840	50 × 105	0.12	5.90	ERWY451LGC841MCA5M
	1,100	50 × 130	0.12	7.50	ERWY451LGC112MCD0M
	1,200	63.5 × 96	0.12	7.80	ERWY451LGC122MD96M
	1,300	50 × 145	0.12	8.40	ERWY451LGC132MCE5M
	1,600	63.5 × 115	0.12	9.80	ERWY451LGC162MDB5M
	1,800	63.5 × 130	0.12	10.9	ERWY451LGC182MDD0M
	2,300	63.5 × 155	0.12	13.3	ERWY451LGC232MDF5M
	2,300	76.2 × 115	0.12	13.0	ERWY451LGC232MEB5M
	2,500	63.5 × 170	0.12	14.5	ERWY451LGC252MDH0M
	2,700	76.2 × 130	0.12	14.8	ERWY451LGC272MED0M
	3,300	76.2 × 155	0.12	17.7	ERWY451LGC332MEF5M
	3,700	76.2 × 170	0.12	19.5	ERWY451LGC372MEH0M
	4,600	89 × 155	0.12	22.2	ERWY451LGC462MFF5M
	5,100	89 × 170	0.12	24.1	ERWY451LGC512MFH0M
	5,700	89 × 190	0.12	27.1	ERWY451LGC572MFK0M
	6,400	100 × 190	0.12	30.6	ERWY451LGC642MGK0M
	7,600	100 × 220	0.12	35.6	ERWY451LGC762MGN0M
	9,500	100 × 270	0.12	43.7	ERWY451LGC952MGT0M

◆RATED RIPPLE CURRENT MULTIPLIERS

❶Frequency Multipliers

Frequency (Hz)	120	300	1k	3k
Coefficient	0.83	1.00	1.25	1.33

Note : The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5 to 10℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced. Also, for RWY series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For details, please contact a representative of Nippon Chemi-Con.